CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Previously Presented) A method comprising:
 determining an input resolution of an image;
 determining an output resolution of an image; and
 providing a control word comprising a first variable indicating a number of input pixels
 in a scaling cycle, a second variable indicating a number of output pixels in a
 scaling cycle, and a third variable indicating a number of right shifts which, when
 applied to the second variable, indicates a number of phases used in the scaling
 cycle.
- (Original) The method of claim 1, further comprising:
 determining a greatest common denominator (GCD) for the input resolution and the output resolution; and
 determining the first variable by dividing the input resolution by the GCD.
- 3. (Previously Presented) The method of claim 2, further comprising: determining the second variable by dividing the output resolution by the GCD; and determining a number of phases used in the scaling cycle by right shifting the second variable by the number of right shifts indicated by the third variable to obtain a value less than or equal to an available number of phases.
- 4. (Previously Presented) The method of claim 2, further comprising: determining the second variable by dividing the output resolution by the GCD; and determining the third variable to be a number of right shifts applied to the second variable to obtain a value less than or equal to an available number of phases.

- 5. (Original) The method of claim 1, wherein determining the input resolution includes determining the input resolution by reading a register value.
- 6. (Original) The method of claim 5, wherein determining the input resolution includes the register value representing a number of input pixels in a specific dimension.
 - 7. (Canceled)
 - 8. (Canceled)
 - 9. (Canceled)
 - 10. (Previously Presented) A method of scaling an image comprising:
 - incrementing a current phase location within a scaling cycle by a first variable to obtain a first adjusted value, the first variable indicative of a number of input pixels in the scaling cycle;
 - decrementing, in response to the first adjusted value being greater than a second variable, the first adjusted value by one or more times the second variable indicative of a number of output pixels in the scaling cycle to obtain a second adjusted value less than the second variable; and
 - determining an index value to access a coefficient set by right shifting the second adjusted value a predetermined amount.
 - 11. (Original) The method of claim 10 further comprising: accessing the coefficient set based on the index value; and determining a scaled pixel value based upon the coefficient set.

location;

- 12. (Previously Presented) The method of claim 10 further comprising: when the index value is within a first range, accessing the coefficient set from a mirror
- when the index value is within a second range, accessing the coefficient set from a direct location; and
- determining a scaled pixel value based upon the coefficient set.
- 13. (Original) The method of claim 12 wherein determining the scaled pixel value further comprises reversing the coefficients when the coefficient set is accessed from a mirror location.
 - 14. (Original) The method of claim 10 further comprising: receiving the predetermined amount from a control word.
 - 15. (Original) The method of claim 10 further comprising: determining the predetermined amount from a control word
 - 16. (Previously Presented) A video scaler comprising:
 - a means for incrementing a current phase location within a scaling cycle by a first variable to obtain a first adjusted value, the first variable indicative of a number of input pixels in the scaling cycle;
 - a means for decrementing, in response to the first adjusted value being greater than a second variable, the adjusted value by one or more times the second variable indicative of a number of output pixels in the scaling cycle to obtain a second adjusted value less than the second variable; and
 - a means for determining an index value to access a coefficient set by right shifting the second adjusted value a predetermined amount.

- 17. (Previously Presented) A system comprising:an data processor for executing instructions; anda memory for storing the instructions, the instructions to:
 - increment a current phase location within a scaling cycle by a first variable to obtain a first adjusted value, the first variable indicative of a number of input pixels in the scaling cycle;
 - decrement, in response to the first adjusted value being greater than a second variable, the adjusted value by one or more times the second variable indicative of a number of output pixels in the scaling cycle to obtain a second adjusted value less than the second variable; and
 - determine an index value to access a coefficient set by right shifting the second adjusted value a predetermined amount.
- 18. (Previously Presented) A computer readable media storing control information for implementing a plurality of operations, the operations to:
 - increment a current phase location within a scaling cycle by a first variable to obtain a first adjusted value, the first variable indicative of a number of input pixels in the scaling cycle;
 - decrement, in response to the first adjusted value being greater than a second variable, the adjusted value by one or more times the second variable indicative of a number of output pixels in the scaling cycle to obtain a second adjusted value less than the second variable; and
 - determine an index value to access a coefficient set by right shifting the second adjusted value a predetermined amount.